2016 Green Tier Annual Report

C.W. Purpero, Inc.

Established 1919

Prepared by:

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President, C.W. Purpero, Inc.

June 25th, 2017

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1.0 Organizational profile

1.1 Name of the organization

C.W. Purpero Inc. (CWP)

1.2 Primary services

CWP is a domestic contractor providing services to both public and private market participants. Its primary business activities are:

- Demolition
- Environmental Remediation
- Earthwork
  - Road Work
  - Building Construction
  - Stream, Pond & Shoreline Work
  - Real Estate Development
  - Athletic Field Construction
  - Landfill Construction
- Utilities
  - Road Work
  - Building Construction
  - Real Estate Development

1.3 Facility Locations

Corporate headquarters office: 1190 W. Rawson Avenue in Oak Creek, WI 53154
Shop facility: 5770 S. 13th Street, Milwaukee, WI 53221

1.4 Geographical area of operations

CWP provides demolition services throughout the state of Wisconsin. Earthwork and Utility work are provided in the Milwaukee, Green Bay, and Madison metro areas and everywhere in between.

1.5 Nature of ownership and legal form

C.W. Purpero, Inc. was incorporated on December 23, 1949 under Chapter 180 of the Wisconsin Statutes. It is a successor to Purpero Trucking, which began in business in 1919.

2.0 Sustainable Practices Policy

CWP will contribute to its core mission as a recognized leader within the construction industry that emphasizes environmental responsibility and dedication to sustainable and exceptional environmental performance on every job and within our own administrative operations.

The company will at a minimum identify and comply with applicable Federal, State and Local Environmental regulations. Going further, the company will recognize where it could have significant potential impacts on the environment, and where practical, implement voluntary programs and controls to prevent pollution, minimize waste, and otherwise reduce the company's impact on the environment. The company will regularly measure its performance and manage both regulated and unregulated programs to ensure continual improvement year after year.

To carry out this policy, the corporation will:

- Communicate this policy and ensure all employees understand it.
- Identify and control potentially significant environmental impacts stemming from its operations and activities.
- Establish and periodically review environmental objectives and targets through the management review process.
- Conduct pollution control and prevention activities to safeguard the public from injuries or health hazards, to protect the corporation's assets and continuity of operations, and to protect the environment.
- Work constructively with external organizations such as trade associations and government agencies to develop equitable and effective laws, regulations and standards to protect the environment.

Every employee is expected to understand and apply the environmental policy within their duties, and adhere to the policies and [improvements?] that flow from the EMS. Under the EMS, all employees, especially managers and supervisors, are expected to be aware of the environmental aspects of their work, and advise higher management promptly of any adverse situation that comes to their attention, including any questions or concerns about the suitability, adequacy and effectiveness of the EMS.

In addition to evidencing its commitment toward sustainability and reduced impact, CWP will enjoy benefits as a Green Tier program participant. Public and private customers place a high value on working with companies that will abide by all laws and regulations meant to protect or enhance the environment. More importantly, being recognized as a leader in developing environmental performance standards that exceed minimum standards, will help us develop relationships with customers and supply-chain partners who value the importance of such dedication and who share a similar vision. CWP looks forward to developing and strengthening such relationships with a dedicated customer base and with our trade partners.

3.0 Reporting System for Environmental Performance in 2016

3.1 General description of Objectives & Targets

In 2016 we launched a new way of measuring performance on the following objective:

- **Project Site Erosion/Sediment Control**

    - **<u>2016 New System for Objective and Targets (as revised recently in EMS)</u>**
        - Phasing out the entering our erosion control inspections into our proprietary database for the purpose of developing a "GPA"
        - Phasing out "GPA"
        - Our system will be centered on the following document published by the WDNR called an Erosion Control Inspection Report (ECIR). See http://dnr.wi.gov/topic/stormwater/documents/3400187_Construction_Site_Inspection_Report.pdf
        - Our goal: We shall endeavor to receive, review, file, and log as many ECIR's as we can each week for all of our projects, whether it is our contractual responsibility to address them or not.
        - The project managers will review the ECIR's for their projects and alert the foreman of any issues we are contractually responsible to correct. On some projects the foreman might review the ECIR directly, this protocol will be set by the project manager on each project.
        - Erosion control issues that are not within our contractual responsibility will be discussed by CWP staff as needed depending on severity as to how to best assist the project.
        - All ECIR's will be forwarded to CWP admin staff in the CWP office so that they can log and file them and then also send out weekly summaries to all project managers and CWP management of ECIR's received.
        - The log spreadsheet maintained will be used to determine a very simple metric we shall track. The metric we will used for self-improvement, as always, and shall be calculated as follows:
            - The metric will be the total quantity of ECIR's logged in the week. This is because we believe good things will happen with increased awareness.
            - We shall keep a database documenting all efforts to prevent / resolve erosion /sediment control issues on our projects.
            - We shall track which efforts are within our scope of contract and which ones are not.

        - The efforts made that are outside our scope of contract to do so will be considered exceeding environmental compliance.
        - Therefore this system is a qualitative evaluation of our performance in addition to a very simple quantitative metric.
    - Additional anticipated benefits will be to arrive at some new conclusions on effective job site erosion / sediment control.
- **2016 System will**
    - Assure that timely inspections are done on all projects, even when it's not our responsibility to inspect or respond to inspections.
    - Assure that there are no unknown erosion control issues on any of our projects, even when we are not performing most of the erosion control BMP's.
    - Attain a reasonably objective metric with reliable year over year comparisons.
    - Be more stream lined with easily engaged administrative help.
    - Assure we are exceeding compliance of regulations by facilitating awareness and analysis of project compliance that is not necessarily our contractual obligation.
    - Make business sense because awareness of potential project problems helps us help our projects along which avoids impacts of violations on both project cost and schedule.
- **2016 Performance**
    - We are setting goals as follows:
        - To collect and review 300 erosion control inspection reports
        - To document 60 instances where we helped provide guidance, expertise, or resources with an erosion control modification needed that is outside our original scope of work. We will look to be compensated when resources are involved.

4.0 Environmental Performance

4.1 Erosion / Sediment Control

- **Base Line set from 2015**
  - Goal set for 2016:
    - **Number of erosion control inspections collected and reviewed:**
      - **2016: 300**
    - **Number of documented instances where we helped provide guidance, expertise, or resources with an erosion control modification needed.**
      - **2016: 60**

- **2016 Data Compilation**
  - **Number of erosion control inspections collected and reviewed:**
    - **2016: 177**
  - **Number of documented instances where we helped provide guidance, expertise, or resources with an erosion control modification needed.**
    - **2016: 40**

3/3/2016	Chipped trees that had to be removed for the job and placed the mulch over the temporary haul roads Roman's Grading was using for their work. (Prevented exposed dirt /tracking mud onto the roadways)
4/7/2016	Advised to hang the siphon pump in the to sit on 1 inch clear stone and a type B Inlet protection that went into the construction Pond Basin of the project
4/22/2016	Advised GC to add additional silt fence to extend spoil stockpile
5/3/2016	Advised additional silt fence added for spoil pile area Southside Place on north side of stockpile as well
5/11/2016	Add an additional tracking pad Stone to prevent tracking out on Layton
5/27/2016	Adding 1 inch and 3 inch Stone around catch basins great Burns for additional Inland protections that have type D inlet screens in as well.

6/1/2016	So that added and placed on tops Auburn catch basins added 1 inch to 3 inch Stone barns around inlets for protection
6/7/2016	Informed the prime contractor that silt fence was missing at the northeast corner of the job site. This is potentially sensitive due to the steep slope and proximity to Poplar Creek
6/7/2016	Informed them that silt fence was missing at the northeast corner of the job site. This is potentially sensitive due to the steep slope and proximity to Poplar Creek.
6/15/2016	Added extra ditch checks to the main swale in the center of the site that drained into the wetland area at the north end of the site. Also added extra high straw waddles at outlet to ensure a large flow event wouldn't overtop the single layer of straw waddles at the outlet point.
6/16/2016	Additional tools or tracking pad Stone Place on street entrance to create a 30 foot by 200-foot tracking pad.
7/8/2016	Silt sock an inlet screen placed around demolition project.
7/19/2016	Informed GC of an area on the south side of the job site where Inlet protection had been removed and not replaced. Advised them to replace as the stone road currently does drain to these in inlets and potential settlement could get into their storage system.
7/28/2016	Additional silt sock place along West property line.
8/1/2016	Placed silt sock (logs) at all of the driveway entrances along Layton Ave, 92nd Street, and 84th Street to prevent sediment from leaving the site from those locations. (Could not be covered by silt fence because of the concrete but were low points at risk of runoff to the curb line in the street)
8/10/2016	Due to changes in grading plan added additional ditch checks
8/10/2016	Additional tracking pad added at 60th Street entrance. Tracking pad Stone added to Layton entrance.
8/11/2016	No Inlet protection on interior storm sewer grates. Advised general contractor to install inlet protection

8/15/2016	This project included a bio-retention basin with engineered soils, seeding, and erosion control matting. The engineer's initial direction was to fully complete the bio-retention basin early on in the project sequencing. Due to concerns that the completed basin could be contaminated with erosion settlement during the construction process, because it was the main outfall for the proposed storm sewer, we convinced the engineer to utilize the basin as a setting basin only until the site was nearly restored. This change worked as intended during one of the 2 inch rain storms received during late summer when the basin captured eroded material mainly from the storm system. The cost to repair the basin, which was paid by the City, was significantly reduced with the changed sequencing for the pond.
8/16/2016	Additional tracking pad added at 60th Street entrance
8/24/2016	All erosion control items look good at this time.
8/31/2016	Add an additional subside after rain event.
9/6/2016	Chipped brush from tree clearing and used as mulch on side slope west of 92nd street to cover exposed dirt while DFT was doing their work for the storm sewer outlet. Also added extra silt fence at bottom of slope to prevent dirt from rolling down into the ditch at bottom of slope.
9/14/2016	Suggested the owner to have CWP perform the erosion control inspections in the interim of the owner having a superintendent on site to perform the weekly inspections.
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9/16/2016	Topsoil Island placed soil net on Islands.
9/16/2016	It was suggested to ARCO to install a temporary flume and a mini sediment basin to collect runoff from the existing pavement and proposed site to protect from sediment migration off site.
9/22/2016	8 inch silt sock added to Layton Avenue across entrance way to Meyer.

9/28/2016	SCI construction fence and silt fence was still up along Layton Avenue.
10/6/2016	SCI construction fence and silt fence was taken down to blend match points seeding and matting to follow after graded.
10/10/2016	Temporary seeding of inactive stockpile/berms was discussed with ARCO. It was mentioned that we could use a polymer to stabilize soils in situations like in the fall when the doesn't germinate for a small upcharge.
10/14/2016	Silt fence was installed by spoil berm.
10/17/2016	Soil net 50 placed on North East berm.
10/21/2016	Reminded ARCO to continue to perform EC inspections and provide CWP with a copy. After the 1.5 inch rain event we had last Saturday, an inspection should've been performed even though the side held up well.
11/7/2016	Replaced silt log with ~ 300LF of silt fence at the toe of berm piles adjacent to the river and secured the perimeter of the site was so blogs, we recommend using a temporary soil stabilizer and Polymer to stabilize the berms by the river and miscellaneous soil piles. If the berms were completed and ready for permanent seating that could be done along with a singles net straw matting, but we are still concerned about the 7000 yd.^{3} of cut remaining in the staffing partner's parking lot in the truck drive along with the expected EBS. The pricing for the temp Palmer application is $20 per pound will you 60 pound to apply the to the berms along the river equaling $1200. Any additional applications can be priced later at the $20 per pound rate. The palmers set on that 50 which is approved by the W DOT is on the PAL list and excepted by WDNR his temp soil stabilization in certain situations.
11/9/2016	City removed Inlet screen on adjacent streets and recommended and reinstalled Inlet protection type D to avoid inevitable additional impacts.
11/30/2016	Added 3" TB at the end of the binder road on falcon pass as an extra tracking pad layer to help prevent sediment from the site being tracked out onto adjacent streets from trucks hauling stone & materials. (not originally in erosion control plan design)

- ## 2016 Analysis / Discussion

Non obligatory contributions to the erosion / sediment control were logged. Some are more substantial than others; however they all show a positive contribution or a proactive avoidance of problems.

Observations:

- **A greater emphasis by our team members in making non-obligatory recommendations because these BMP's tend to be more consequential:**
  - **Grading practices**
  - **Sequencing**
  - **Tracking pads**
- **SWPPP compliance should be a project wide effort and yet compliance often is confined to one or two contractors contractually. It's clear that a team awareness is imperative and a team approach to maintenance and sequencing is advantageous.**
- **A tool for an integrated project wide approach to the SWPPP compliance should be considered as a voluntary initiative for willing project owners.**
- **Said tool could facilitate awareness of sequencing and exposure among other relative BMP's that are impacted by other trades who otherwise are uninvolved or even oblivious to the SWPPP.**
  - **Real time communications**
    - **Collaborative to-do items**
    - **Published inspections**
    - **Published input on SWPPP suggested changes**
  - **Could prompt non-obligatory input from other project team members**
  - **Project team members take a greater ownership in SWPPP**

5.0 Conclusion

5.1 Erosion / Sediment Control Objective and Target

- **2016 performance**
  - Our 2016 quantitative performance did not exceed expected numbers, however qualitative results did meet expectations.
  - System obviously motivates proactive care on job sites.
  - Assured that timely inspections are done on all projects, even when it's not our responsibility to inspect or respond to inspections.
  - Is more stream lined with easily engaged administrative help.
  - Assure we are exceeding compliance of regulations by facilitating awareness and analysis of project compliance that is not necessarily our contractual obligation.
  - Makes business sense because awareness of potential project problems helps us help our projects along which avoids impacts of violations on both project cost and schedule.
  - Toward the end of last year the idea of our objective started to get traction through positive feedback from our projects.

- **2017 Performance**
  - We have upgraded our system for recording our instances of non-obligatory guidance, therefore we anticipate more instances to get documented. This system now uses a mobile app.
  - We have upgraded our system to do erosion control inspections internally using a mobile app. This is more functional as it integrates pictures and task assignments on the fly effectively doing a better job documenting
  - We are repeating goals as follows:
    - To collect and review 300 erosion control inspection reports
    - To document 60 instances where we helped provide guidance, expertise, or resources with an erosion control modification needed that is outside our original scope of work. We will look to be compensated when resources are involved.
  - We intend to develop a tool that will integrate SWPPP compliance efforts throughout whole project teams to be ready for use in 2018.